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SERVICE CENTERS: IS THERE A SILVER LINING IN THE CLOUD OF RECESSION?

THE CHANGING OF THE GUARD AT THE UAW
An Exclusive Interview with Owen Bieber and Douglas Fraser

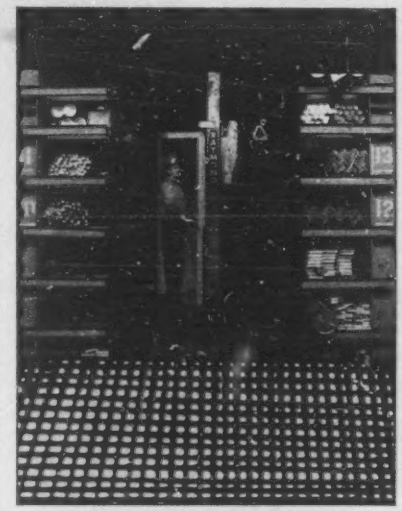
HI-TECH REPORT: AMORPHOUS METALS–
A NEW CLASS OF MATERIALS EMERGES

HOW WESTINGHOUSE VIEWS FACTORY AUTOMATION

VOL. 226, NO. 14

IRON AGE

MAY 11, 1983



COVER STORY

23 SERVICE CENTERS ARE TAKING STOCK IN THE RECOVERY
The slide that sent many metal suppliers skidding throughout much of last year has ended. Many are reporting steady sales gains in the early months of Recovery '83. Those that expanded product lines, added new equipment and consolidated operations stand to weigh in heavily on the profits scale.

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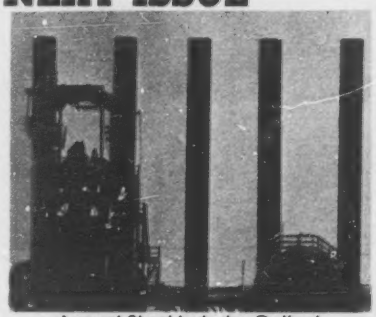

Annual Steel Industry Outlook

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EFFECTIVE APRIL 25, 1983

MATERIALS NEWSFRONT

Important Notice About Iron Age Scrap Prices

Beginning with the Jan. 21 issue Iron Age has been publishing only one set of scrap prices per issue—those with the effective date as close to the issue date as printing schedules permit. Prices for other weeks are available on a weekly basis through our Metal Price Phone Hotline or through our Weekly Price Newsletter.

Steel Production, Composite Prices

(Effective April 25, 1983)

U.S. Steel Production	Last Week	Two Weeks Ago	To Date 1983	To Date 1982
Net tons, in thousands	1,720	1,687	23,919	27,647
Capability Utilization Rate	59.5	58.4	51.1	58.1

Composite Prices	This Week	Week Ago	Month Ago	Year Ago
Finished Steel Base* (¢/lb.—eff. 2/14/83)	26.217	26.217	26.217	25.862
Pig Iron* * (Net ton=2000 lbs.)	$213.00	$213.00	$213.00	$213.00
Scrap No. 1 hvy.* * * (Gross ton=2240 lbs.)	$ 70.83	$ 70.83	$ 71.17	$ 71.83
No. 2 bundles	$ 48.50	$ 48.50	$ 49.17	$ 47.83
Scrap Comparison (Gross Ton)				
No. 1 steel, Pittsburgh	$ 75.50	$ 75.50	$ 75.50	$ 76.50
No. 1 steel, Philadelphia	64.50	64.50	65.50	71.50
No. 1 steel, Chicago	72.50	72.50	72.50	67.50
No. 1 bundles, Detroit	72.50	75.50	75.50	67.50
Low Phos., Youngstown	69.50	69.50	69.50	83.50
No. 1 mach'y cast., Pgh	76.50	76.50	76.50	86.50
No. 1 mach'y cast., Phila	98.50	98.50	98.50	113.50
No. 1 mach'y cast., Chi	110.50	110.50	110.50	119.50

*Finished Steel Composite
Weighted index of steel bars, shapes, plates, wire, rails, black pipe, hot and cold rolled sheets and strips.

* *Pig Iron Composite
Based on average prices for basic and foundry pig iron at representative producing points within the U.S.

* * *Steel Scrap Composite
Average of No. 1 hvy. melting steel scrap and No. 2 bundles delivered to consumers at Pittsburgh, Philadelphia and Chicago.

Lake Superior Ore Prices

51.50% Fe Natural delivered lower Lake ports. Rail transportation, handling and unloading may be charged to the account of the buyer. Coarse ore 80¢ premium.

Pellets (per iron unit natural)..... gross-ton 80.50-86.9*
Old range, non-bessemer ..... gross-ton $32.78
Mesabi, regular-unscreened ..... gross-ton $32.53
Mesabi, non-bessemer.....gross-ton $32.25-32.53**

*80.50¢—Pickands Mather as of 1/27/81.
**86.9¢—U. S. Steel as of 3/15/82. Cleveland-Cliffs as of 2/26/82, Oglebay Norton as of 3/25/82, and Hanna Mining as of 2/26/82.

Nonferrous Prices

(Effective April 25, 1933)
Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated.

Primary Metal Prices

(cents per lb.)	current price	last price	date of change
Aluminum	76.00 (Nom.)	76.00-80.00	1/4/82
Copper (C)	81.50-82.00	80.00-82.00	4/22/83
Lead	21.00-23.00	20.50-23.00	3/30/83
Magnesium Ingot	134.00	125.00	6/1/81
Nickel	329.00	350.00	11/25/81
Titanium Sponge	555.00-585.00	555.00	4/29/82
Zinc	38.00	38.00-40.00	3/29/83

ALUMINUM: 99.5%. COPPER (C) = cathode. LEAD: common grade. MAGNESIUM: 99.8% pig. Velasco, Tex. NICKEL: electro., Port Colborne, Canada. ZINC: high grade.

Antimony, American Laredo, Texas . $2.00
Beryllium-aluminum 5% Be, per lb. contained Be $201.00
Beryllium-copper, per lb. cont. Be $130.00
Beryllium 97% powder 200 ..... $166.00
Bismuth, ton lots ..... $1.55-$1.60
Cadmium, under one ton ..... $1.05-$1.15
Calcium, ton lots, crown $3.05
Chromium, 99.8% $3.75
Cobalt, 99%, cathode $12.50
Gold per troy oz. $441.50
Indium, dollars per troy oz. $3.10
Iridium, dollars per troy oz. $600
Magnesium sticks, 10,000 lbs. $1.91
Mercury, per 76-lb. f.o.b. N.Y. ..$320-$335
Molybdenum, lb. tech. moly oxides, 20 lb. MO can $5.85
Nickel oxide sinter at U.S. points of entry $3.12
Palladium, per troy oz. $140
Platinum, per troy oz. $475
Rhodium, per troy oz. $600.00
Silver ingots, per troy oz. $12.30
Vanadium $4.94
Zirconium sponge ..... $12.00-$17.00
(Per lb. unless otherwise noted)

Straits Tin Price

(U.S. cents per lb. EX-SMELTER, based on daily market in Penang in Malaysian dollars per kilo.)

Apr. 18—624.90 Apr. 21—622.35
Apr. 19—666.51 Apr. 22—621.65
Apr. 20—622.06

Scrap Prices

Brass Mill Scrap

(Cents per lb; over 20,000 lbs. add 1¢ per lb)

	Solids	Turning
Copper	75½	66¼
Yellow brass	63⅝	61¼
Red brass	69¼	66⅛
Comm. bronze	70⅞	67¾
Mang. bronze	62¼	60½
Free cutting rod ends	59	58

Custom Smelters Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	71
No. 2 copper wire	63
Light copper	54

Ingot Makers Scrap

(Cents per lb., carload lots, del. refinery)

No. 1 copper wire	67
No. 2 copper wire	59
Light copper	50
No. 1 composition	55
No. 1 comp. turnings	50
Hvy. yellow brass solids	36
Hvy. yellow brass turnings	28
Radiators	44

Aluminum

New mixed clips	36	—37
Old sheet	35	—36
Old cast	35	—36
Clean dry borings	35	—36

Dealers' Scrap

(Dealers' buying price f.o.b. New York in cents per pound)

Aluminum

Segregated clippings	27	—28
Mixed L.C. clips	24	—25
Old sheets and cast	19	—20
Borings and turnings	13	—14
Duraluminum clippings	22	—23

Copper and Brass

No. 1 copper wire	58	—59
No. 2 copper wire	51	—52
Light copper	44	—45
Radiators	37	—38
No. 1 composition	46	—47
No. 1 composition turn'gs	42	—44
Cocks and faucets	32	—33
Clean heavy yellow brass	31	—32
Brass Pipe	31	—32
New soft brass clippings	46	—47

Lead

Heavy soft lead	10	—11
Whole batteries	4	— 5
Type metal	15	—16
Electrotype	17	—18

Nickel

Nickel solids	95	—100
Nickel rod ends	95	—100
Nickel sheets, clips	95	—100
Nickel turnings	45	— 50

Zinc

New zinc clippings	15	—16
Old diecast zinc	9	—10

EFFECTIVE APRIL 25, 1983

MATERIALS NEWSFRONT

(Effective April 25, 1983) Prices obtained in trade based on representative tonnages per gross ton delivered to consumer unless otherwise stated. Prices are the opinions of *Iron Age* editors and correspondents, based on contacts with dealers, brokers, generators and users in the industry on the effective date listed above.

Ferrous Scrap Prices

Pittsburgh

No. 1 hvy. melting	$ 75.00 to	$ 76.00
No. 2 hvy. melting	70.00 to	71.00
No. 1 dealer bundles	83.00 to	84.00
No. 1 factory bundles (auto)	85.00 to	86.00
No. 2 bundles	51.00 to	52.00
No. 1 busheling	83.00 to	84.00
Machine shop turn.	7.00 to	8.00
Shoveling turnings	28.00 to	29.00
Cast iron borings	27.00 to	28.00
Low phos. punchings plate	91.00 to	92.00
Heavy turnings	70.00 to	71.00
No. 1 RR hvy. melting	85.00 to	86.00
Rails 2 ft. and under	96.00 to	97.00
Scrap rails, random lgth.	88.00 to	89.00
RR specialties	93.00 to	94.00
No. 1 machinery cast	76.00 to	77.00
Cupola cast	69.00 to	70.00
Heavy breakable cast	30.00 to	31.00
Stainless		
18-8 bundles and solids	590.00 to	600.00
18-8 turnings	490.00 to	500.00

Chicago

No. 1 hvy. melting	$ 72.00 to	$ 73.00
No. 2 hvy. melting	61.00 to	62.00
No. 1 dealer bundles	84.00 to	85.00
No. 1 factory bundles (auto)	85.00 to	86.00
No. 2 dealer bundles	49.00 to	50.00
No. 1 busheling	79.00 to	80.00
Shredder scrap	75.00 to	76.00
Machine shop turn.	17.00 to	18.00
Mixed bor. and turn.	18.00 to	19.00
Shoveling turnings	24.00 to	25.00
Cast iron borings	40.00 to	41.00
Low phos. forge crop	89.00 to	90.00
Low phos. punchings plate ¼ in. and heavier	96.00 to	97.00
Low phos. 2 ft. and under	90.00 to	91.00
No. 1 RR hvy. melting	79.00 to	80.00
Scrap rails, random lgth.	71.00 to	72.00
Reroller rails	96.00 to	97.00
Rails, 2 ft. and under	93.00 to	94.00
RR couplers and knuckles	81.00 to	82.00
RR car axles	104.00 to	105.00
No. 1 machinery cast	110.00 to	111.00
Cupola cast	95.00 to	96.00
Stove plate	94.00 to	95.00
Steel car wheels	82.00 to	83.00
Stainless		
18-8 bundles and solids	550.00 to	560.00
18-8 turnings	450.00 to	460.00
430 bundles and solids	135.00 to	140.00
430 turnings	100.00 to	105.00

Philadelphia

No. 1 hvy. melting	$ 63.00 to	$ 66.00
No. 2 hvy. melting	54.00 to	57.00
No. 1 dealer bundles	74.00 to	77.00
No. 2 dealer bundles	43.00 to	46.00
No. 1 busheling	74.00 to	77.00
Shredder scrap	73.00 to	76.00
Machine shop turn.	23.00 to	26.00
Mixed bor. and turn.	23.00 to	26.00
Shoveling turnings	43.00 to	46.00
Low phos. 5 ft. and under	73.00 to	76.00
Low phos. 2 ft. punchings	91.00 to	94.00
Electric furnace bundles	95.00 to	98.00
RR specialties	80.00 to	83.00
Rails, 2 ft. and under	93.00 to	96.00
Cupola cast	60.00 to	63.00
Heavy breakable cast	53.00 to	56.00
No. 1 machinery cast	97.00 to	100.00

Detroit

Broker buying prices per gross ton on cars:

No. 1 hvy. melting	$ 49.00 to	$ 50.00
No. 2 hvy. melting	47.00 to	48.00
No. 1 dealer bundles	72.00 to	73.00
No. 2 bundles	28.00 to	29.00
No. 1 busheling	69.00 to	70.00
Drop forge flashings	44.00 to	45.00
Machine shop turn.	27.00 to	28.00
Mixed borings and turn.	13.00 to	14.00
Shoveling turnings	27.00 to	28.00
Cast iron borings	13.00 to	14.00
Heavy breakable cast	32.00 to	33.00
Mixed cupola cast	48.00 to	49.00
Automobile cast	71.00 to	72.00
Stainless		
18-8 bundles and solids	480.00 to	490.00
18-8 turnings	360.00 to	370.00
430 bundles and solids	120.00 to	130.00

Youngstown

No. 1 hvy. melting	$ 62.00 to	$ 63.00
No. 2 hvy. melting	54.00 to	55.00
No. 1 dealer bundles	74.00 to	75.00
No. 2 dealer bundles	39.00 to	40.00
Machine shop turn.	2.00 to	3.00
Shoveling turnings	7.00 to	8.00
Low phos. plate	69.00 to	70.00
Electric furnace bundles	70.00 to	71.00
Galvanized bundles	60.00 to	61.00

Cleveland

No. 1 hvy. melting	$ 64.00 to	$ 65.00
No. 2 hvy. melting	29.00 to	30.00
No. 1 dealer bundles	74.00 to	75.00
No. 1 factory bundles	81.00 to	82.00
No. 2 bundles	24.00 to	25.00
No. 1 busheling	74.00 to	75.00
Machine shop turn.	2.00 to	3.00
Mixed bor. and turn.	2.00 to	3.00
Shoveling turnings	5.00 to	6.00
Cast iron borings	5.00 to	6.00
Cut structural & plates, 2 ft. and under	92.00 to	93.00
Low phos. punchings plate	92.00 to	93.00
Drop forge flashings	33.00 to	34.00
Foundry steel, 2 ft. & under	59.00 to	60.00
No. 1 RR hvy melting	63.00 to	64.00
Rails, 2 ft. and under	96.00 to	97.00
Rails, 18 in. and under	97.00 to	98.00
Steel axle turnings	69.00 to	70.00
Railroad cast	82.00 to	83.00
No. 1 machinery cast	89.00 to	90.00
Cupola cast	62.00 to	63.00
Stove plate	47.00 to	48.00
Stainless		
18-8 bundles	305.00 to	315.00
18-8 turnings	255.00 to	265.00
430 bundles	80.00 to	85.00

Buffalo

No. 1 hvy. melting	$ 33.00 to	$ 34.00
No. 2 hvy. melting	23.00 to	24.00
No. 1 busheling	38.00 to	39.00
No. 1 dealer bundles	36.00 to	38.00
No. 2 bundles	20.00 to	21.00
Machine shop turn.	9.00 to	10.00
Mixed bor. and turn.	16.00 to	17.00
Shoveling turnings	18.00 to	19.00
Cast iron borings	15.00 to	16.00
Low phos. plate	56.00 to	57.00
Structural and plate, 2 ft. and under	54.00 to	55.00
Rails, 2 ft. and under	50.00 to	51.00
Scrap rails, random lgth.	30.00 to	31.00
No. 1 machinery cast	71.00 to	72.00
No. 1 cupola cast	48.00 to	49.00

St. Louis

No. 1 hvy. melting	$ 61.00 to	$ 62.00
No. 2 hvy. melting	50.00 to	51.00
Foundry steel, 2 ft.	50.00 to	51.00
No. 1 dealer bundles	61.00 to	62.00
No. 2 bundles	47.00 to	48.00
Machine shop turn.	12.00 to	13.00
Shoveling turnings	18.00 to	19.00
Cast iron borings	30.00 to	31.00
No. 1 RR hvy. melting	61.00 to	62.00
Rails, random length	61.00 to	62.00
Rails, 18 in. and under	76.00 to	77.00
RR specialties	80.00 to	81.00
Cupola cast	70.00 to	71.00
Heavy breakable cast	48.00 to	49.00
Stove plate	82.00 to	83.00
Cast iron car wheels	49.00 to	50.00
Rerolling rails	96.00 to	97.00
Unstripped motor blocks	55.00 to	56.00

Birmingham

No. 1 heavy melting	$ 64.00 to	$ 65.00
No. 2 heavy melting	59.00 to	60.00
No. 1 dealer bundles	64.00 to	65.00
No. 2 bundles	45.00 to	46.00
No. 1 busheling	64.00 to	65.00
Shredder scrap	77.00 to	78.00
Machine shop. turn.	24.00 to	25.00
Shoveling turnings	35.00 to	36.00
Cast iron borings	35.00 to	36.00
Electric furnace bundles	64.00 to	65.00
Elec. furnace, 3 ft. & under	59.00 to	60.00
Structural and plate, 2 ft.	79.00 to	80.00
Structural and plate, 4 ft.	77.00 to	78.00
No. 1 RR hvy. melting	63.00 to	64.00
Scrap rails, random lgth.	68.00 to	69.00
Rails, 18 in. and under	86.00 to	87.00
Angles and splice bars	76.00 to	77.00
No. 1 cupola cast	84.00 to	85.00
Unstripped motor blocks	56.00 to	60.00

Cincinnati

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 51.00 to	$ 52.00
No. 2 hvy. melting	48.00 to	49.00
No. 1 dealer bundles	57.00 to	58.00
No. 2 bundles	30.00 to	31.00
Machine shop turn.	6.00 to	7.00
Shoveling turnings	9.00 to	10.00
Cast iron borings	11.00 to	12.00
Low phos. 18 in. and under	76.00 to	77.00
Rails, random length	58.00 to	59.00
Rails, 2 ft. and under	78.00 to	79.00
No. 1 cupola cast	62.00 to	63.00
Heavy breakable cast	28.00 to	29.00
Drop broken cast	69.00 to	70.00

New York

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 34.00 to	$ 35.00
No. 2 hvy. melting	30.00 to	32.00
No. 2 dealer bundles	22.00 to	23.00
Mixed bor. and turn.	7.00 to	8.00
Machine shop turn.	4.00 to	5.00
Shoveling turnings	10.00 to	12.00
Clean cast chem. borings	34.00 to	35.00
No. 1 machinery cast	89.00 to	90.00
Mixed yard cast	38.00 to	39.00
Heavy breakable cast	14.00 to	15.00
Stainless		
18-8 prepared solids	480.00 to	500.00
18-8 turnings	375.00 to	390.00
430 prepared solids	70.00 to	80.00
410 solids	60.00 to	70.00

Boston

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 38.00 to	$ 40.00
No. 2 hvy. melting	28.00 to	30.00
No. 1 dealer bundles	40.00 to	42.00
No. 2 bundles	29.00 to	31.00
No. 1 busheling	40.00 to	42.00
Shredder scrap	43.00 to	45.00
Machine shop turn.	3.00 to	5.00
Shoveling turnings	7.00 to	9.00
No. 1 machinery cast	105.00 to	110.00
Mixed cupola cast	28.00 to	30.00
Heavy breakable cast	8.00 to	10.00

San Francisco

No. 1 hvy. melting	$ 43.00 to	$ 45.00
No. 2 hvy. melting	35.00 to	37.00
No. 1 dealer bundles	30.00 to	32.00
No. 2 dealer bundles	14.00 to	16.00
Machine shop turn.	6.00 to	8.00
Cast iron borings	6.00 to	8.00
No. 1 cupola cast	85.00 to	87.00

Los Angeles

No. 1 hvy. melting	$ 42.00 to	$ 44.00
No. 2 hvy. melting	31.00 to	33.00
No. 1 dealer bundles	29.00 to	31.00
No. 2 dealer bundles	11.00 to	13.00
Machine shop turn.	6.00 to	8.00
Shoveling turnings	10.00 to	12.00
Cast iron borings	6.00 to	8.00
Elec. furnace, 1 ft. and under (foundry)	86.00 to	88.00
No. 1 cupola cast	88.00 to	90.00

Seattle

No. 1 hvy. melting	$ 61.00 to	$ 63.00
No. 2 hvy. melting	50.00 to	52.00
No. 2 bundles	40.00 to	42.00
No. 1 cupola cast	94.00 to	96.00
Mixed yard cast	81.00 to	83.00

Hamilton, Ont.

Brokers buying price per net ton on cars:	
No. 1 heavy melting	$ 55.00
No. 2 heavy melting cut 2 ft. and under	52.00
No. 1 dealer bundles	60.00
No. 2 bundles	30.00
Mixed steel scrap	34.00
Bush. new fact. prep'd.	58.00
Bush. new fact. unprp'd.	50.00
Machine shop turn.	25.00
Short steel turn.	28.00
Mixed bor. and turn.	15.00
Cast scrap	48.00

Houston

Brokers buying prices per gross ton on cars:

No. 1 hvy. melting	$ 69.00 to	$ 70.00
No. 2 hvy. melting	53.00 to	55.00
No. 2 bundles	36.00 to	38.00
Machine shop turn.	20.00 to	21.00
Crushed turnings	36.00 to	38.00
Shredder scrap	69.00 to	70.00
Cut structural plate 2 ft. and under	86.00 to	88.00
Unstripped motor blocks	60.00 to	62.00
Cupola cast	72.00 to	74.00